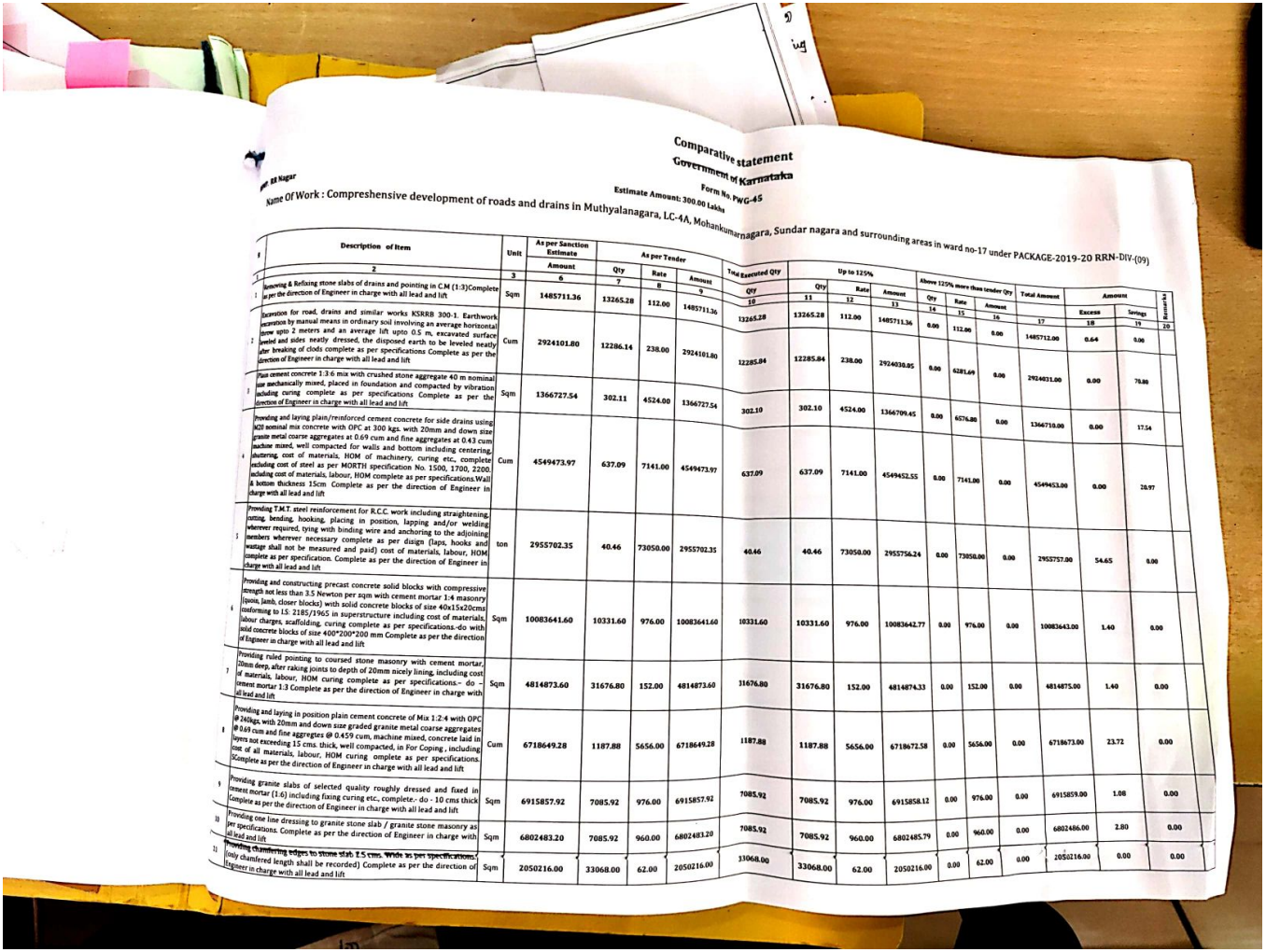

Comparative statement

Government of Karnataka

Form No. PWG-4S

Estimate Amount: 300.00 Lakhs

Name Of Work : Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)

S	Description of Item	Unit	As per Sanction Estimate	As per Tender			Total Executed Qty	Up to 125%			Above 125% more than tender Qty			Total Amount	Amount		Remarks
			Amount	Qty	Rate	Amount	Qty	Qty	Rate	Amount	Qty	Rate	Amount		Excess	Savings	
1	2	3	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	Removing & Refixing stone slabs of drains and pointing in C.M (1:3)Complete as per the direction of Engineer in charge with all lead and lift	Sqm	1485711.36	13265.28	112.00	1485711.36	13265.28	13265.28	112.00	1485711.36	0.00	112.00	0.00	1485712.00	0.64	0.00	
2	Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications Complete as per the direction of Engineer in charge with all lead and lift	Cum	2924101.80	12286.14	238.00	2924101.80	12285.84	12285.84	238.00	2924030.95	0.00	6281.69	0.00	2924031.00	0.00	70.80	
3	Plain cement concrete 1:3:6 mix with crushed stone aggregate 40 m nominal size mechanically mixed, placed in foundation and compacted by vibration including curing complete as per specifications Complete as per the direction of Engineer in charge with all lead and lift	Sqm	1366727.54	302.11	4524.00	1366727.54	302.10	302.10	4524.00	1366709.45	0.00	6576.80	0.00	1366710.00	0.00	17.54	
4	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications.Wall & bottom thickness 15Cm Complete as per the direction of Engineer in charge with all lead and lift	Cum	4549473.97	637.09	7141.00	4549473.97	637.09	637.09	7141.00	4549452.55	0.00	7141.00	0.00	4549453.00	0.00	20.97	
5	Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. Complete as per the direction of Engineer in charge with all lead and lift	ton	2955702.35	40.46	73050.00	2955702.35	40.46	40.46	73050.00	2955756.24	0.00	73050.00	0.00	2955757.00	54.65	0.00	
6	Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 Newton per sqm with cement mortar 1:4 masonry (quoin, lamb, closer blocks) with solid concrete blocks of size 40x15x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications.-do with solid concrete blocks of size 400*200*200 mm Complete as per the direction of Engineer in charge with all lead and lift	Sqm	10083641.60	10331.60	976.00	10083641.60	10331.60	10331.60	976.00	10083642.77	0.00	976.00	0.00	10083643.00	1.40	0.00	
7	Providing ruled pointing to coursed stone masonry with cement mortar, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, HOM curing complete as per specifications.- do - cement mortar 1:3 Complete as per the direction of Engineer in charge with all lead and lift	Sqm	4814873.60	31676.80	152.00	4814873.60	31676.80	31676.80	152.00	4814874.33	0.00	152.00	0.00	4814875.00	1.40	0.00	
8	Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs. with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in For Coping , including cost of all materials, labour, HOM curing omplete as per specifications. SComplete as per the direction of Engineer in charge with all lead and lift	Cum	6718649.28	1187.88	5656.00	6718649.28	1187.88	1187.88	5656.00	6718672.58	0.00	5656.00	0.00	6718673.00	23.72	0.00	
9	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete.- do - 10 cms thick Complete as per the direction of Engineer in charge with all lead and lift	Sqm	6915857.92	7085.92	976.00	6915857.92	7085.92	7085.92	976.00	6915858.12	0.00	976.00	0.00	6915859.00	1.08	0.00	
10	Providing one line dressing to granite stone slab / granite stone masonry as per specifications. Complete as per the direction of Engineer in charge with all lead and lift	Sqm	6802483.20	7085.92	960.00	6802483.20	7085.92	7085.92	960.00	6802485.79	0.00	960.00	0.00	6802486.00	2.80	0.00	
11	Providing chamfering edges to stone slab 2.5 cms. Wide as per specifications. (only chamfered length shall be recorded) Complete as per the direction of Engineer in charge with all lead and lift	Sqm	2050216.00	33068.00	62.00	2050216.00	33068.00	33068.00	62.00	2050216.00	0.00	62.00	0.00	2050216.00	0.00	0.00	

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Providing and Fixing RCC Precast cover slab of 250 mm Thick for drains in Cement Concrete M 20 using graded granite jelly of 20 mm and down size with steel Reinforcement, including form work lift charges, curing and concrete finished surface on both sides etc., as per drawing and the direction of Engineer-in-charge Data Rate	Sqm	1200339.20	219.20	5476.00	1200339.20	219.20	219.20	5476.00	1200339.20	0.00	5476.00	0.00	1200340.00	0.80	0.00	
Removing and resetting of kerb stones.Complete as per the direction of Engineer in charge with all lead and lift	Sqm	1489066.80	14047.80	106.00	1489066.80	14047.80	14047.80	106.00	1489066.54	0.00	106.00	0.00	1489067.00	0.20	0.00	
Providing and fixing pre cast solid concrete kerb stones of size 450x150x500 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing etc., Complete as per the direction of Engineer in charge with all lead and lift	no's	9522000.00	20700.00	460.00	9522000.00	20700.00	20700.00	460.00	9522000.00	0.00	460.00	0.00	9522000.00	0.00	0.00	
Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. Complete as per the direction of Engineer in charge with all lead and lift	Sqm	803687.20	9345.20	86.00	803687.20	0.00	0.00	86.00	0.00	0.00	86.00	0.00	0.00	0.00	803687.20	
Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. Complete as per the direction of Engineer in charge with all lead and lift	Cum	196871.53	2316.14	85.00	196871.53	2316.13	2316.13	85.00	196871.39	0.00	85.00	0.00	196872.00	0.47	0.00	
Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Complete as per the direction of Engineer in charge with all lead and lift	Cum	4431601.80	2215.80	2000.00	4431601.80	2215.04	2215.04	2000.00	4430084.00	0.00	2000.00	0.00	4430084.00	0.00	1517.80	
Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. Complete as per the direction of Engineer in charge with all lead and lift	Cum	6795122.76	3397.56	2000.00	6795122.76	3397.56	3397.56	2000.00	6795128.80	0.00	2000.00	0.00	6795129.00	6.24	0.00	
Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502 Complete with all lead and lift and as per the direction of the Engineer-in-Charge.	Sqm	443160.18	14772.01	30.00	443160.18	14772.01	14772.01	30.00	443160.30	0.00	30.00	0.00	443161.00	0.82	0.00	
Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications. Complete as per the direction of Engineer in charge with all lead and lift	Sqm	282616.22	56523.24	5.00	282616.22	56510.87	56510.87	5.00	282554.35	0.00	5.00	0.00	282555.00	0.00	61.22	
Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. Complete as per the direction of Engineer in charge with all lead and lift	Sqm	1661640.42	127818.49	13.00	1661640.42	127818.54	127818.54	13.00	1661641.82	0.00	13.00	0.00	1661642.00	1.58	0.00	
Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. Clause 505 of morth V revision using 40/60 TPH capacity H.M.P. with mechanical paver Gr-II (50mm to 75mm) with 4.5% VG-30 Bitumen. Complete as per the direction of Engineer in charge with all lead and lift	Cum	24988985.13	3564.76	7010.00	24988985.13	3564.77	3564.77	7010.00	24989006.16	0.00	7010.00	0.00	24989007.00	21.87	0.00	
Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision. -using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 40 mm) with 5.4% VG-30 Bitumen Complete as per the direction of Engineer in charge with all lead and lift	Cum	22842998.10	2851.81	8010.00	22842998.10	2851.81	2851.81	8010.00	22842985.28	0.00	8010.00	0.00	22842986.00	0.00	12.10	
Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 720 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. Complete as per the direction of Engineer in charge with all lead and lift	Sqm	2463912.38	5321.63	463.00	2463912.38	2721.89	2721.89	463.00	1260235.07	0.00	463.00	0.00	1260236.00	0.00	1203676.38	

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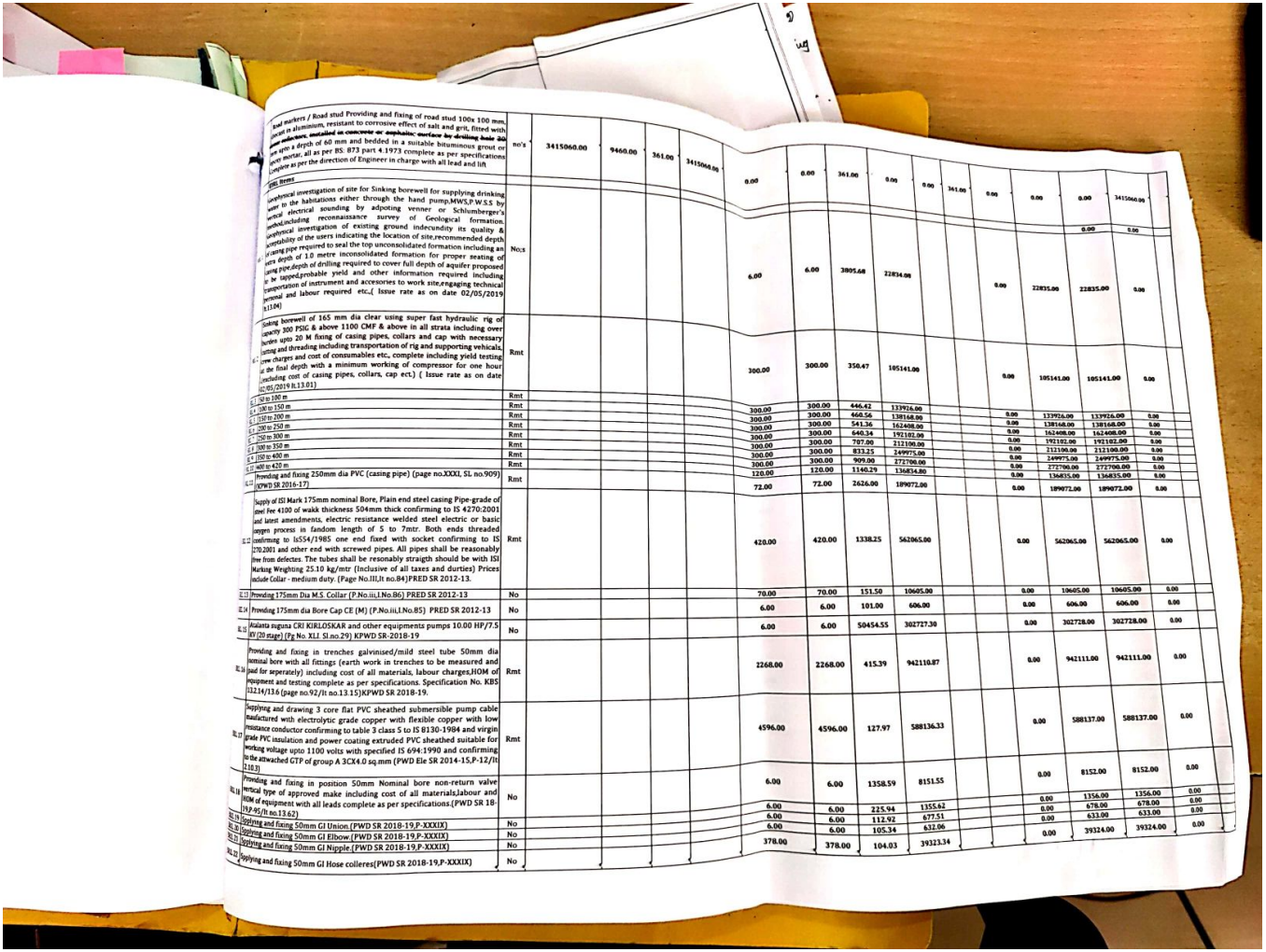

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providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes cutting of pipes and fittings with one step CPVC solvent cement and testing complete. (external work) - 50mm nominal OD pipes (KPWD SR e costs complete. (external work) - 50mm nominal OD pipes (KPWD SR ost 19, P no. It-13.87.6)	Cum					964.00	964.00	462.68	446224.24			0.00	446225.00	446225.00	0.00	
Making connection of G.I distribution branch with G.I main of 25mm to 40mm nominal bore, including cutting and threading the pipes,providing and fixing Tee, nuts,labour for all item of works,testing and HOM of equipments complete as per specifications. (P.No.93/ I.No. 13.20 of KPWD SR ost 19)	no					6.00	6.00	517.10	3102.60			0.00	3103.00	3103.00	0.00	
providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes cutting of pipes and fittings with one step solvent cement, trenching, filling & testing of soents complete. (external work). - 20mm nominal OD pipes (KPWD SR 2018-19, P-98, It-13.85.2)	Mtrs					96.00	96.00	168.08	16136.08			0.00	16137.00	16137.00	0.00	
providing and fixing to wall, ceiling and floor Medium density polyethylene pipes of 6 kg/sq cm working pressure 25mm outside diameter with special type compression type fittings, wall clips, making good the wall, ceiling and floor including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.15.1 / 13.9 (KPWD SR 2018-19, P-95, It-13.67)	Mtrs					912.00	912.00	138.11	125953.95			0.00	125954.00	125954.00	0.00	
KSR2 2.4 : Refilling available around earth pipe lines,cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming with per watering with lead upto 50m. And lift upto 1.5m. Including cost of all labour complete as per specifications.(KPWD SR 2018-19, P-7, It-2.11)	Cum					90.15	90.15	129.54	11678.65			0.00	11679.00	11679.00	0.00	
Loading and unloading of stone boulder/stone aggregates/sand/kanker/ murrum, KSRBB M100-1:Placing tupper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (KPWD SR 2018-19,P-136, It-17.1)	Cum					124.50	124.50	98.94	12317.68			0.00	12318.00	12318.00	0.00	
KSR2 2.4 : Providing and fixing in position brass gate valve with C.I.wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials,labour and HOM of equipments with all leads complete as per specifications. (P.No.94/ I.No. 13.37 of KPWD SR 2018-19)	no's					6.00	6.00	1861.77	1170.64			0.00	1171.00	11171.00	0.00	
KSR13.4.2.1 : Providing and fixing in position brass stop cock of approved quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3 (Pg No:-93/I.No:-13.26 of KPWD SR 2018-19 2018-19)	n					6.00	6.00	150.95	905.73			0.00	906.00	906.00	0.00	
KSR8 4.1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.No.13, I.No. 4.3 of KPWD SR 2018-19)	Cum					42.93	42.93	5861.86	251649.49			0.00	251650.00	251650.00	0.00	
Sub Total		**131204500.33**							**13120167.64**			**0.00**	**13120196.00**			
Tender Premium & Miscelleneous																
TOTAL		**131204500.33**			**13120450.00**								**13120196.00**	**5419819.68**	**5424124.01**	

Contractor Quoted the Rates +1% Above the S R Rates of 2018-19.

1) Estimated amount		150000000.00
2) Tendered Amount		13120503 2.00
3) Actual amount As per Modified Estimate (Work Slip+EIRL)		131200196.00
Percentage of (3)/(2)		0.0%
Savings		4836.00
Workslip %		0.00%
ERIL %		4.13%

Since the overall expenditure is lesser then estimated amount. The Work slip & EIRL may please be approved

Assistant Engineer
Ward No 17

EXECUTIVE ENGINEER
RR Nagar Division

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